

ABSTRACT

A method for providing data service to locations an extended distance from an access network includes generating a downstream signal, providing the downstream signal to a first transmitter and a second transmitter, transmitting the downstream signal over media to a location, generating an upstream signal, providing the upstream signal to a first receiver and a second receiver, and receiving the upstream signal over the media from the location. A transceiver for use in an access network providing data services includes a media connecting the access network to a location, a first transmitter for transmitting a first signal at a first frequency, a second transmitter for transmitting the first signal at a second frequency, a first receiver for receiving a second signal at a third frequency, and a second receiver for receiving the second signal at a fourth frequency.

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